

REAGENTS AND METHODS FOR SOLID PHASE
SYNTHESIS AND DISPLAY

ABSTRACT OF THE DISCLOSURE

5 New compounds, compositions and methods which find application in solid
phase synthesis including the preparation of high-density arrays of diverse polymer
sequences such as diverse peptides and oligonucleotides as well as in preparation of arrays of
small ligand molecules. The compounds of the present invention are those which are
typically referred to as linking groups, linkers or spacers and include unsymmetrical
10 disulfide linking groups, and 1,3-diol derivatives capable of providing a triggered release of
an attached compound from a solid support under mild conditions. Additional new
compounds are labels which can be incorporated into either the 3' or 5' terminus of a DNA
oligomer.